Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A radio-control antenna support ~~arm~~ device for lifting machinery, ~~in particular for a tower crane, wherein it is able to be orientated about a vertical pivoting axis (11) on the lifting machinery (2) such that it can occupy at least two separate angular positions (A, B, C, D), this~~ comprising:

a support arm ~~(5)~~ that can be pivotally mounted to a lower frame of a lifting machinery; and

~~comprising~~ a head ~~(10), radially offset with respect to the said pivoting axis (11),~~ upon which is mounted at least one radio-control ~~antenna (6).~~ antenna,

wherein the head is radially offset from a vertical pivoting axis of the support arm and the support arm can be oriented about the vertical pivoting axis and can be positioned in at least two separate angular positions.

2. (Currently Amended) The radio-control antenna support ~~arm~~ device as claimed in claim 1, ~~wherein it comprises~~ the support arm further comprising:

a base part ~~(7) mounted such~~ that ~~it~~ rotates on a fixed ~~pivot (8),~~ pivot, the fixed pivot defining the ~~said~~ vertical pivoting ~~axis (11),~~ axis;

a curved or bent tube ~~(9)~~ extending from the base ~~part (7) and,~~ part, a transmission cable which ends at the radio-control antenna passing inside the tube; and

at least one positioning device that immobilizes the tube in at least one of the at least two separate angular positions,

wherein the head is mounted to an end of the tube, and the head ~~at the end of the tube (9), a head (10) in the form of~~ forms a mounting ~~plate,~~ plate upon which the radio-control antenna ~~(6)~~ is ~~mounted,~~ mounted. ~~a transmission cable (15) which ends at this antenna~~

~~(6) passing through the inside of the tube (9), and means (16 to 24) being provided for positioning the tube (9) in at least two predefined separate angular positions (A, B, C, D).~~

3. (Currently Amended) The radio-control antenna support ~~arm~~ device as claimed in claim 1, wherein the at least two separate angular ~~positions,~~ positions in which the support arm ~~(5) or its tube (9)~~ can be immobilized, comprise a position ~~(A)~~ folded back against the lower frame of the lifting machinery, ~~such as a crane (2),~~ and at least one position ~~(B, C, D)~~ usable to position the head to be separated from ~~the metal structure of that~~ the lower frame of the lifting ~~machinery (2).~~ machinery.

4. (Currently Amended) The radio-control antenna support ~~arm~~ device as claimed in claim 3, ~~wherein, in the case of a folding tower crane, the support arm (5) is mounted such that it can be orientated on a lower chassis or frame (2) of the crane, and~~ wherein the at least two ~~predefined~~ separate angular positions ~~of this~~ in which the support arm can be immobilized ~~(5)~~ comprise:

~~- a~~ a first ~~position (A),~~ position which is the position folded back against the lower frame ~~or chassis (2)~~ of the ~~crane,~~ lifting machinery, ~~this~~ the first position ~~(A)~~ being usable for the working of the ~~crane~~ lifting machinery and also for ~~its transport~~ transporting the lifting machinery; ~~in the folded state;~~

~~- a~~ a second ~~position (B),~~ position, the second position usable to position the head to be separated from the lower frame ~~or chassis (2)~~ of the ~~crane,~~ lifting machinery ~~this position (B) being usable~~ for raising and lowering of the ~~crane;~~ lifting machinery; and

~~- at~~ at least a third position ~~(C),~~ which is separated from the lower frame ~~or chassis (2)~~ of the ~~crane,~~ lifting machinery, ~~this position (C)~~ for bringing the radio-control antenna ~~(6) towards~~ at least one of toward or in ~~the~~ front of the lower frame ~~or chassis (2), or in front of the base of the crane's mast (4).~~ of the lifting machinery.

5. (Currently Amended) The radio-control antenna support ~~arm~~ device as claimed in claim 4, wherein ~~the~~ an angular distance between the first position ~~(A)~~ of the support arm ~~(5) an~~ and ~~its~~ the second position ~~(B)~~ of the support arm is ~~about~~ approximately 60° and ~~the~~ an angular distance between the second position ~~(B)~~ of the support arm ~~(5)~~ and ~~its~~ the at least one third position ~~(C) and, if applicable, between the following positions (C, D),~~ of the support arm is also ~~about~~ approximately 60°, the support arm ~~(5)~~ thus ~~having, for example,~~ having an angular positional range of ~~the order to~~ up to approximately 120°.

6. (Currently Amended) The radio-control antenna support ~~arm~~ device as claimed in claim 2, ~~wherein the means for positioning the support arm (5) in its first position (A), folded back against the lower frame or chassis (2) of the crane, comprise~~ further comprising an upper positioning pin ~~(16)~~ held on a plate ~~(17)~~ fixed to the ~~said~~ lower frame ~~or~~ of the lifting machinery, ~~chassis (2), this~~ the upper positioning pin ~~(16)~~ cooperating with another ~~plate (18),~~ plate, provided with a ~~hole (19),~~ hole, attached to the ~~support arm's (5) head (10) in the form of a mounting plate.~~ head, to position the support arm in a position folded back against the lower frame of the lifting machinery.

7. (Currently Amended) The radio-control antenna support ~~arm~~ device as claimed in claim 2, ~~wherein the means for positioning of the support arm (5) in its other two or more positions (B, C, D), separated from the lower frame or chassis (2) of the crane, comprise, in the base part (7) and at the fixed pivot (8) of the support arm (5),~~ further comprising a lower positioning pin ~~(24)~~ attached to the base part ~~(7, 20)~~ of the support arm ~~(5)~~ at the fixed pivot, ~~and provided for~~ the lower positioning pin cooperating with ~~one or other of two or more holes (22, 23)~~ at least one hole ~~drilled~~ in a plate ~~(21)~~ integral with a part ~~(12)~~ of the fixed pivot ~~(8).~~ to position the support arm in at least one position usable to position the head to be separated from the lower frame of the lifting machinery.

8. (Currently Amended) The radio-control antenna support ~~arm~~ device as claimed in claim 7, wherein the fixed pivot ~~(8), used~~ usable for ~~the~~ orientation of the support arm ~~(5), is produced in the form of a sheet, folded into~~ has a U ~~shape, whose~~ shape with at least two flanges ~~(12, 13) are~~ positioned horizontally, one of the at least two flanges positioned vertically above ~~the other, in such a way as~~ another of the at least two flanges to form at least an upper bearing and a lower bearing, the upper bearing and the lower bearing being traversed by the base part ~~(7)~~ of the support ~~arm (5),~~ arm, the ~~said~~ plate ~~(21)~~ drilled with ~~two or more holes (22, 23)~~ at least one hole being integral with the ~~upper flange (12) of the folded sheet which~~ one of the at least two flanges that forms the upper bearing.

9. (Currently Amended) The radio-control antenna support ~~arm~~ device as claimed in claim 8, wherein the at least two flanges ~~(12, 13) of the sheet folded in a U shape~~ are connected by a vertical section ~~(14) which is fixed, and in particular welded,~~ that is fixed with respect to ~~against~~ the lower frame ~~or chassis (2)~~ of the ~~crane.~~ lifting machinery.

10. (Currently Amended) The radio-control antenna support ~~arm~~ device as claimed in claim 6, wherein the base part ~~(7)~~ of the support arm ~~(5)~~ is mounted such that ~~it~~ the base part slides along a vertical axis ~~(11)~~ in the fixed ~~pivot (8), which makes it possible~~ pivot to raise the support arm ~~(5)~~ to allow ~~its~~ movement of the support arm from one position to another position.

11. (Currently Amended) The radio-control antenna support ~~arm~~ device as claimed in ~~claim 6,~~ claim 10, wherein ~~the~~ raising of the support arm ~~(5) is provided for~~ facilitates releasing the plate ~~(18)~~ from the upper positioning pin ~~(16)~~ and ~~for~~ moving around ~~the~~ an obstacle formed by ~~the~~ an upper edge of the lower frame ~~or chassis (2)~~ of the ~~crane~~ lifting machinery during ~~its~~ movement of the support arm at least from the first position ~~(A)~~ to the second ~~position (B).~~ position.

12. (Currently Amended) The radio-control antenna support ~~arm~~ device as claimed in claim 10, wherein a stop ~~device, such as a safety pin (25)~~ device is provided on the base part ~~(7)~~ of the support arm ~~(5)~~ to limit the raising of ~~this~~ the support arm ~~(5)~~ and to ~~prevent it~~ restrict the support arm from coming out of ~~its~~ the pivot ~~(8), particularly~~ during a change of position of the support ~~arm (5).~~ arm.

13. (New) The radio-control antenna support device as claimed in claim 12, wherein the stop device comprises a safety pin.

14. (New) The radio-control antenna support device as claimed in claim 3, further comprising an upper positioning pin held on a plate fixed to the lower frame of the lifting machinery, the upper positioning pin cooperating with another plate, provided with a hole, attached to the head, to position the support arm in the position folded back against the lower frame of the lifting machinery.

15. (New) The radio-control antenna support device as claimed in claim 2, wherein the base part of the support arm is mounted such that the base part slides along a vertical axis in the fixed pivot to raise the support arm to allow movement of the support arm from one position to another position.

16. (New) Lifting machinery including the radio-control antenna support device of claim 1.

17. (New) Tower crane including the radio-control antenna support device of claim 1.